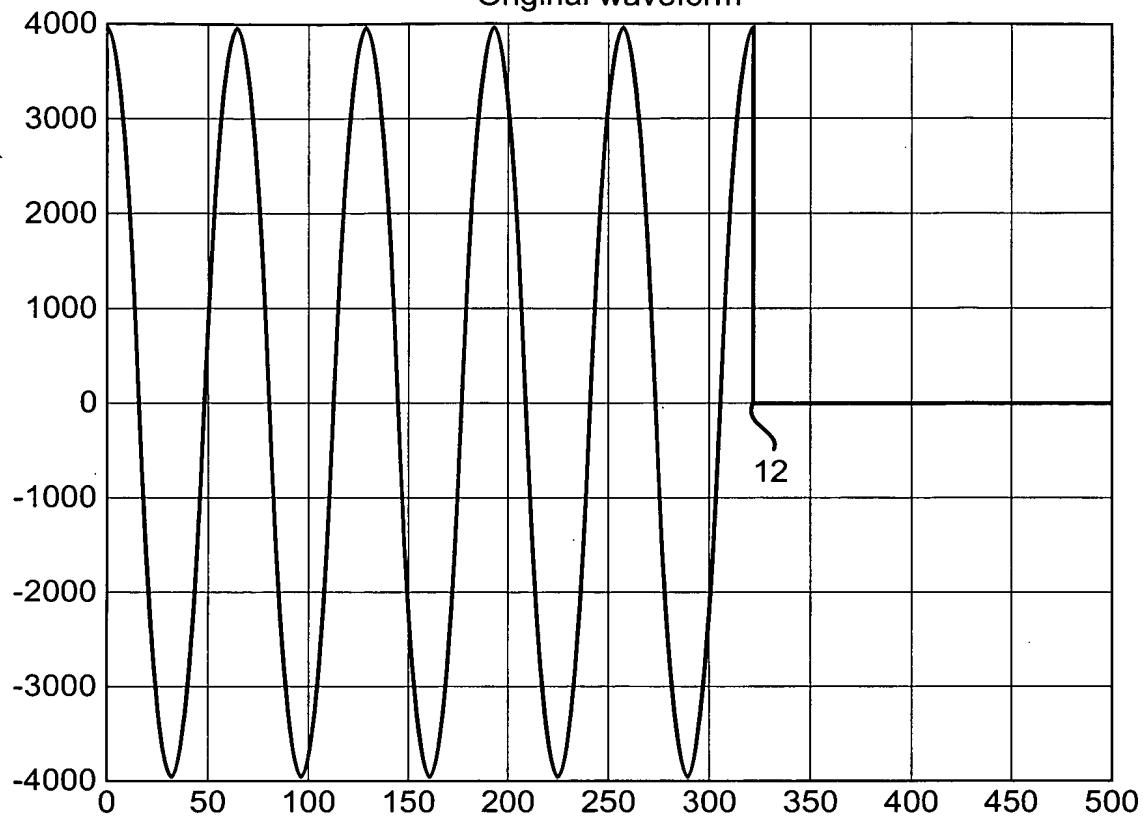




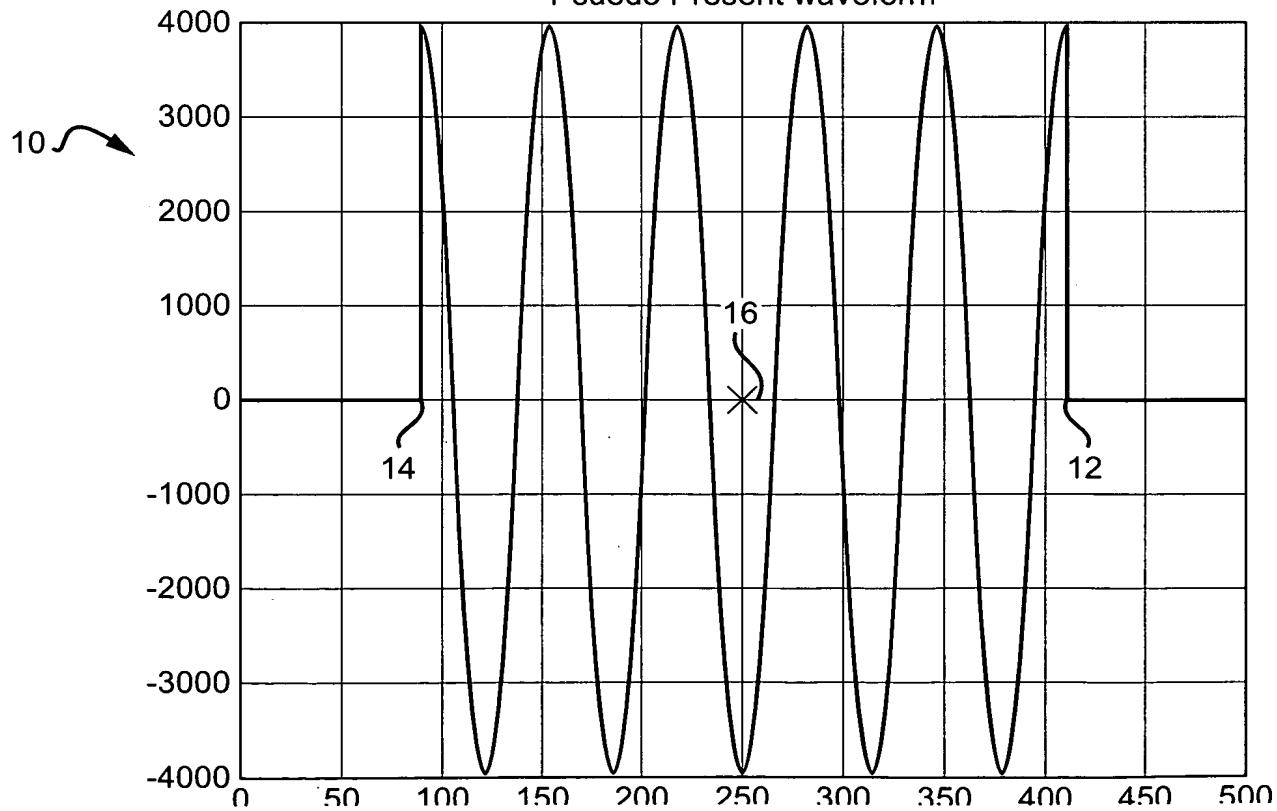
1/25  
Original waveform



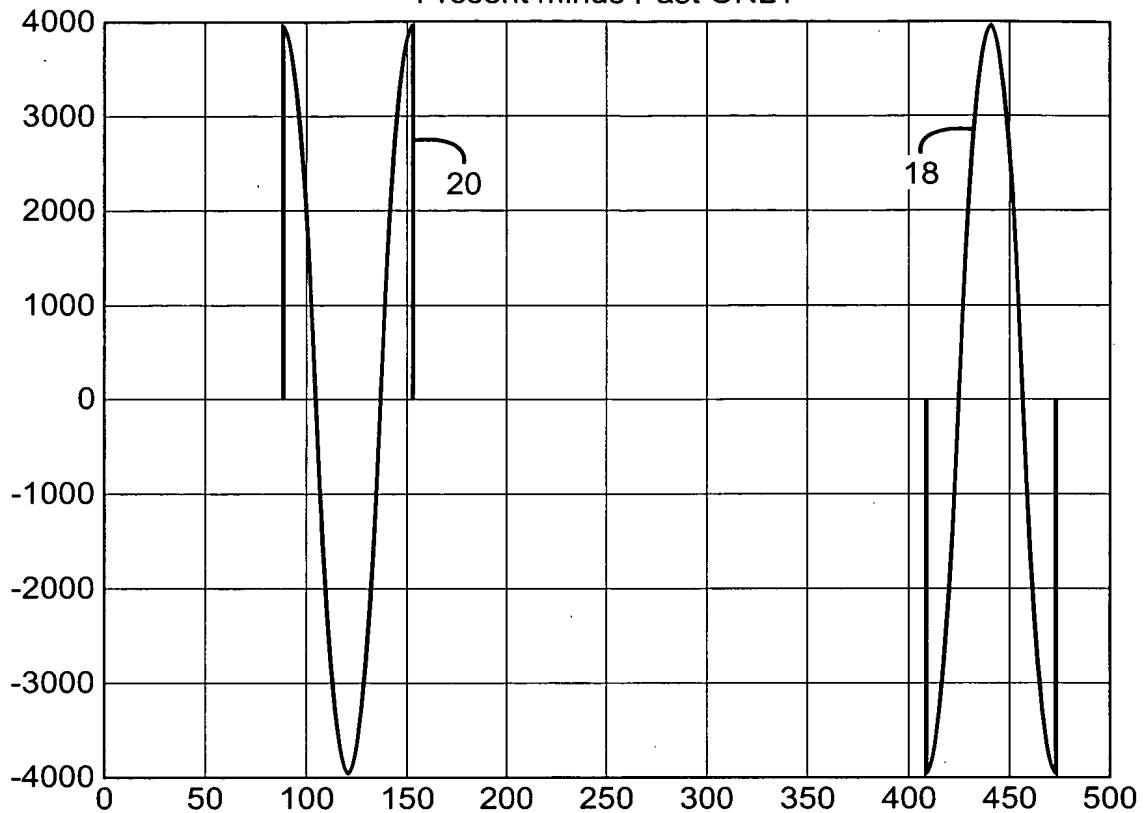
*FIG. 1*

*FIG. 2*

Pseudo Present waveform



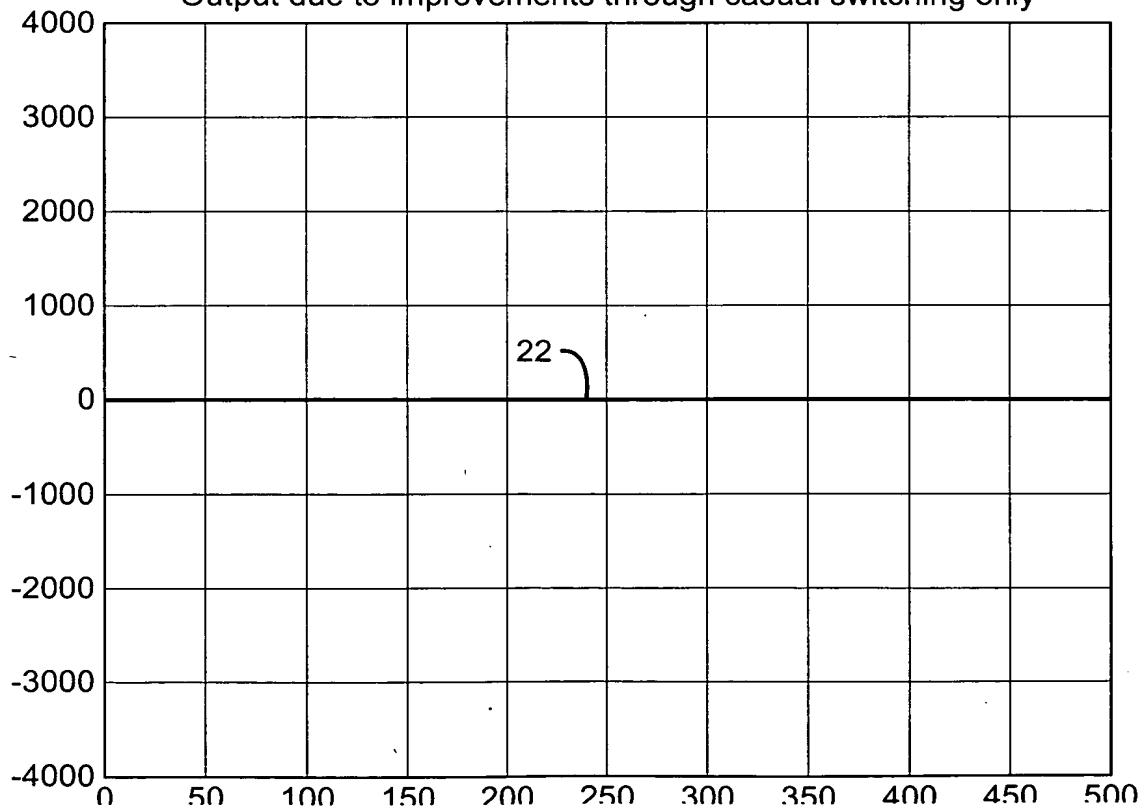
2/25  
Present minus Past ONLY



*FIG. 3*

*FIG. 4*

Output due to improvements through casual switching only



3/25  
Original waveform

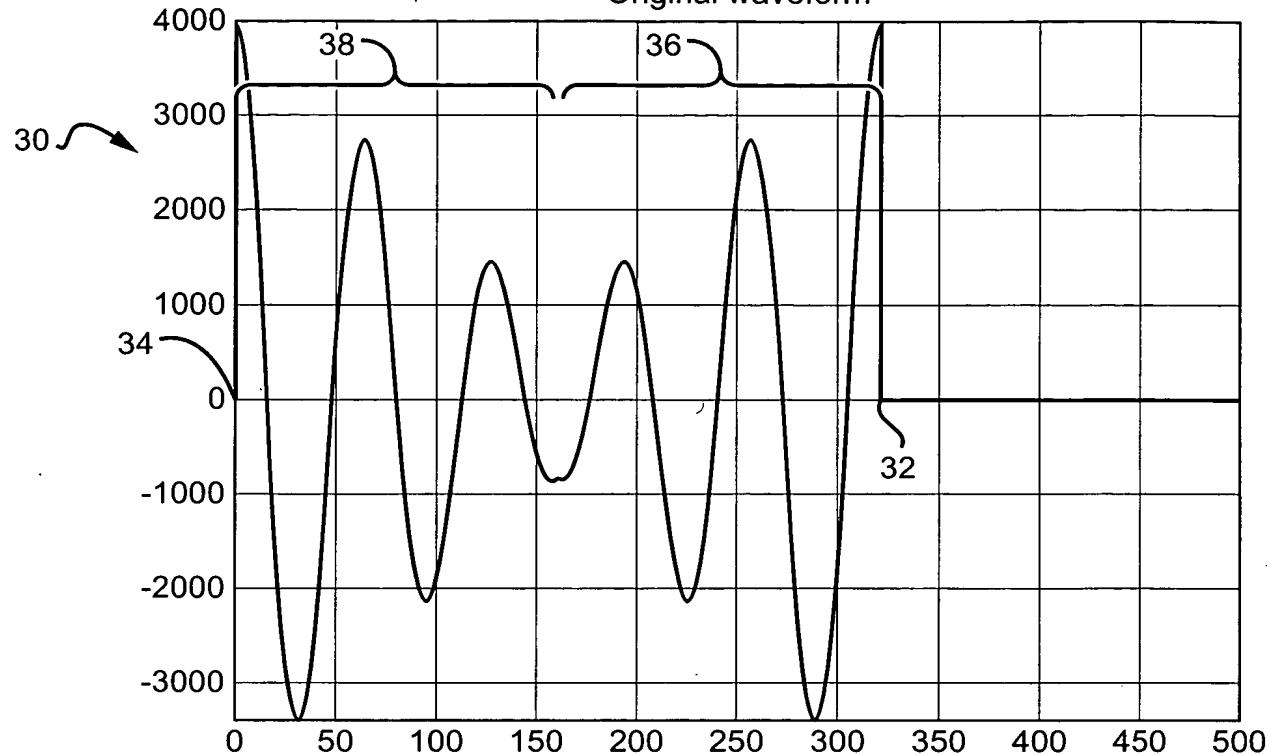
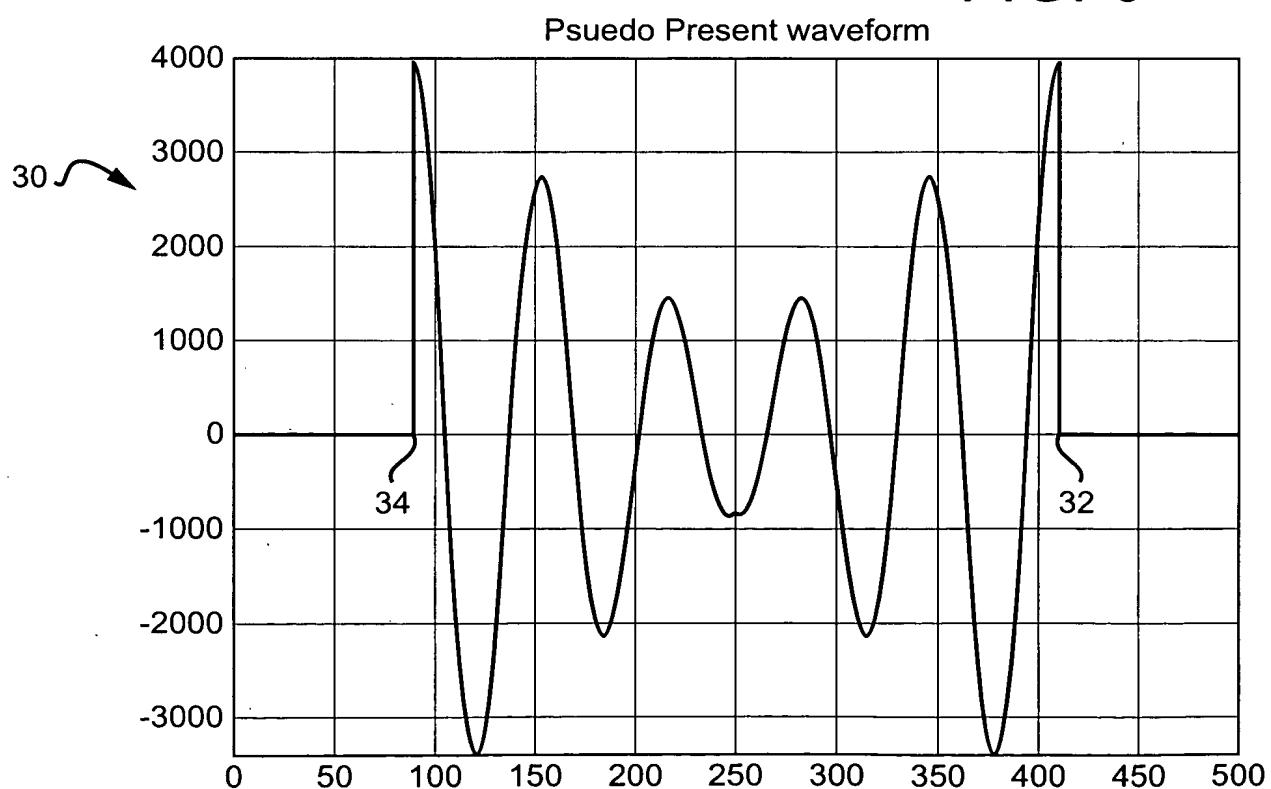


FIG. 5

FIG. 6



## Present minus Past ONLY

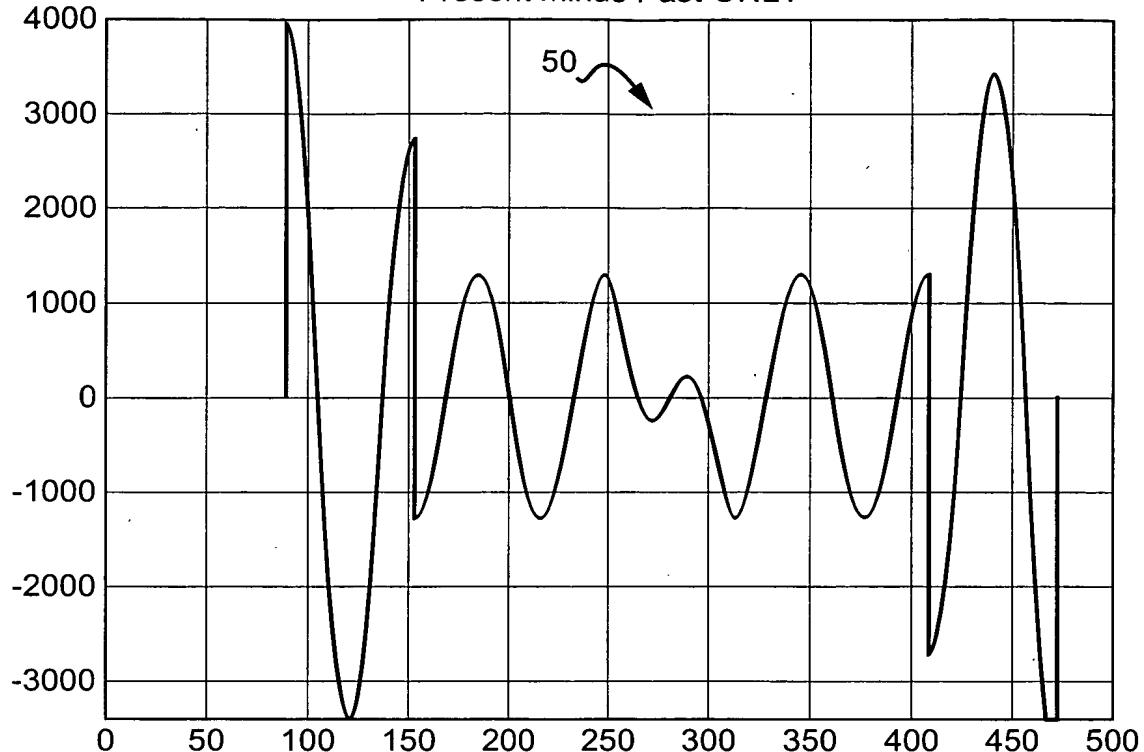
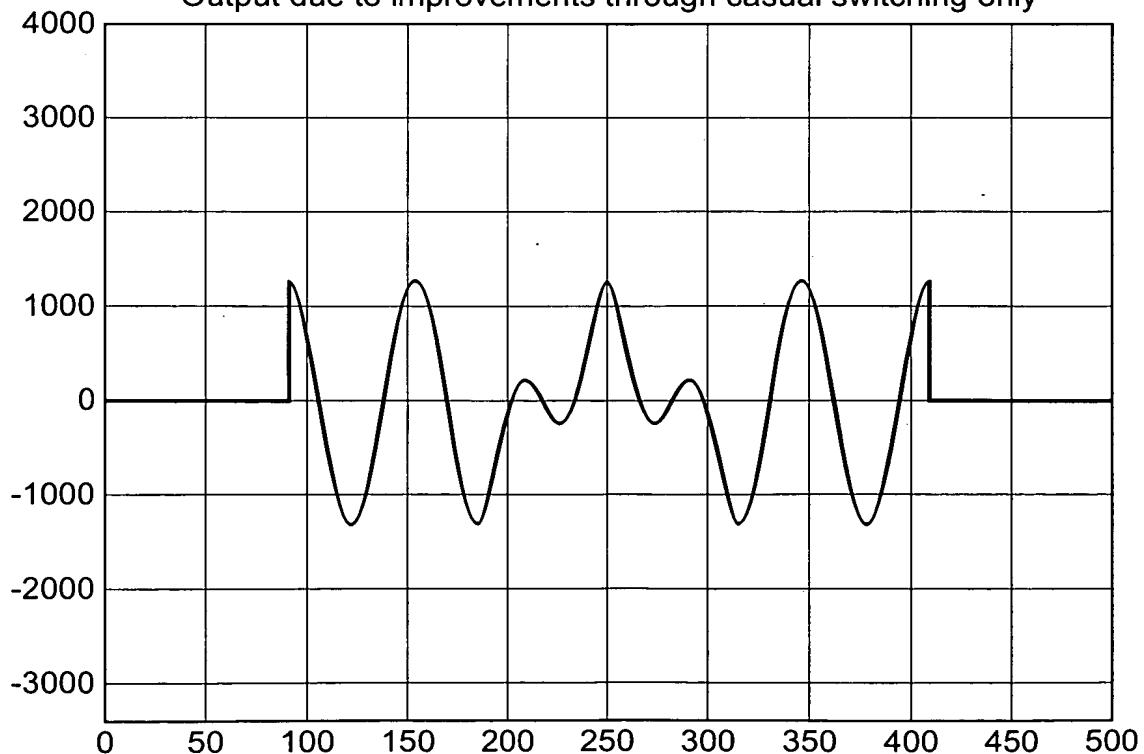


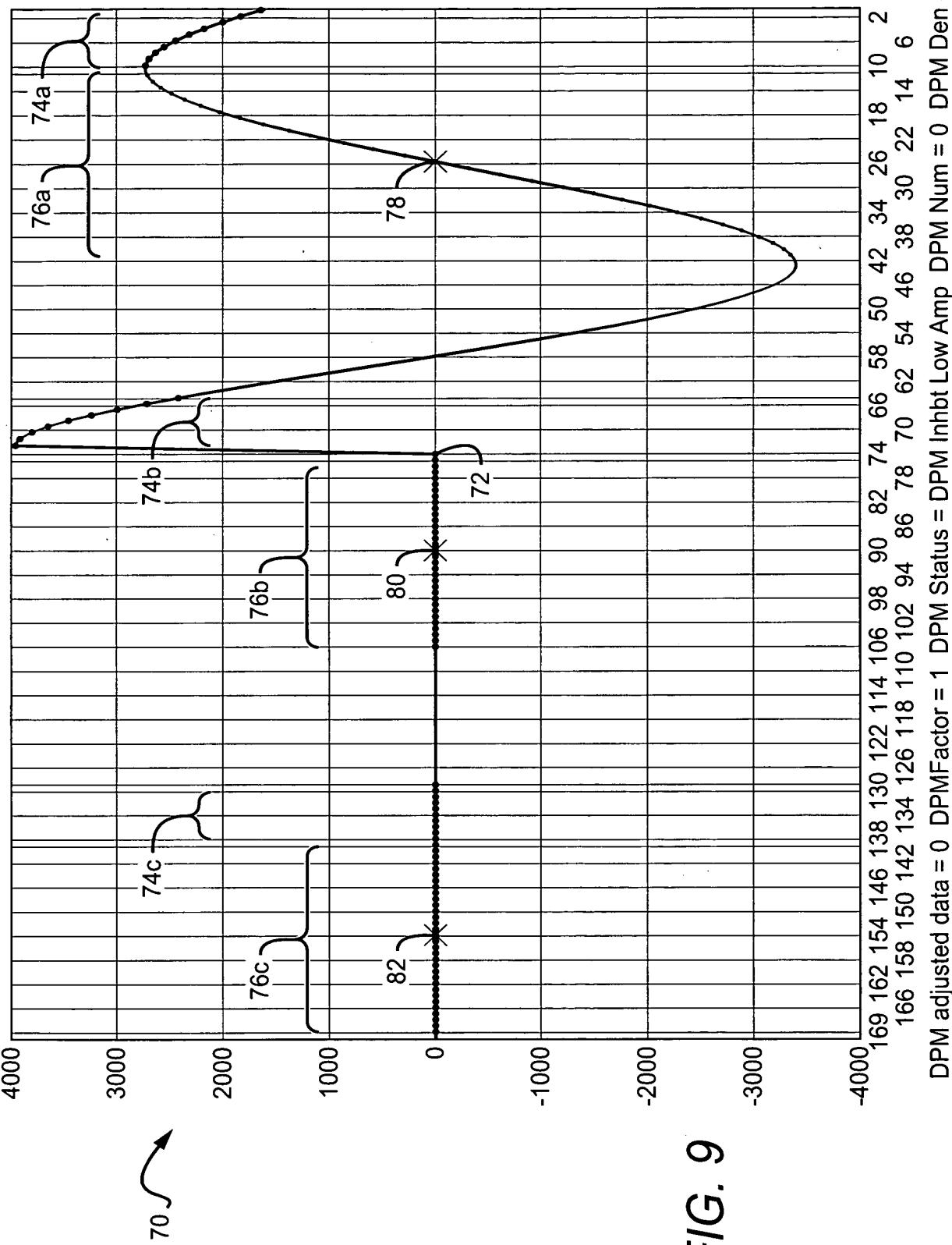
FIG. 7

FIG. 8

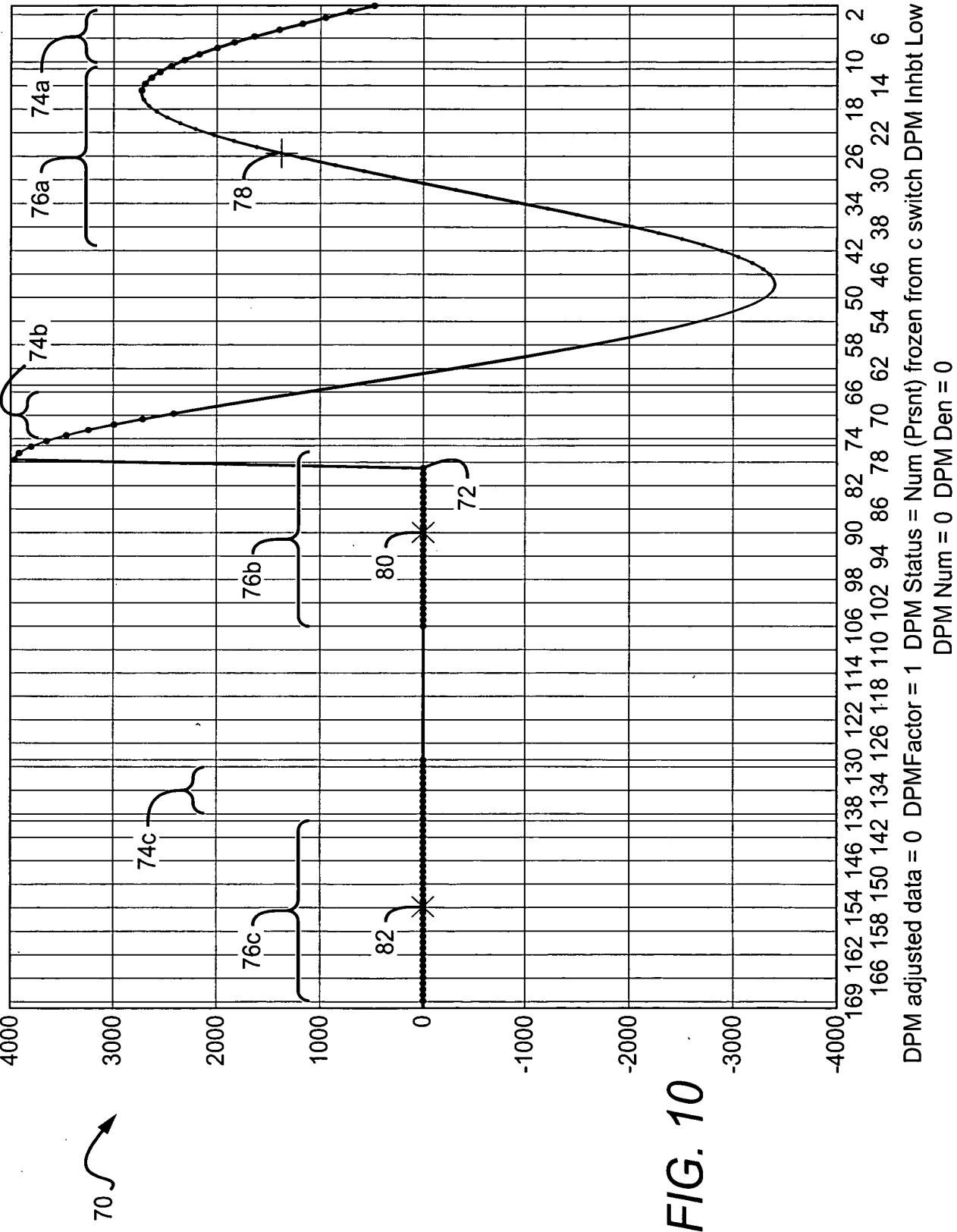
Output due to improvements through casual switching only



Points Processed = 73 PtCntSwitch = 17 CasualSwitchEnabled PastPoint = 0 PresentPoint = 0 FuturePoint = 0



Points Processed = 78 PtCntSwitch = 12 CasualSwitchLockedOut PastPoint = 0 PresentPoint = 0 FuturePoint = 1395



Points Processed = 89 PtCntSwitch = 1 CasualSwitchLockedOut PastPoint = 0 PresentPoint = 0 FuturePoint = 2740

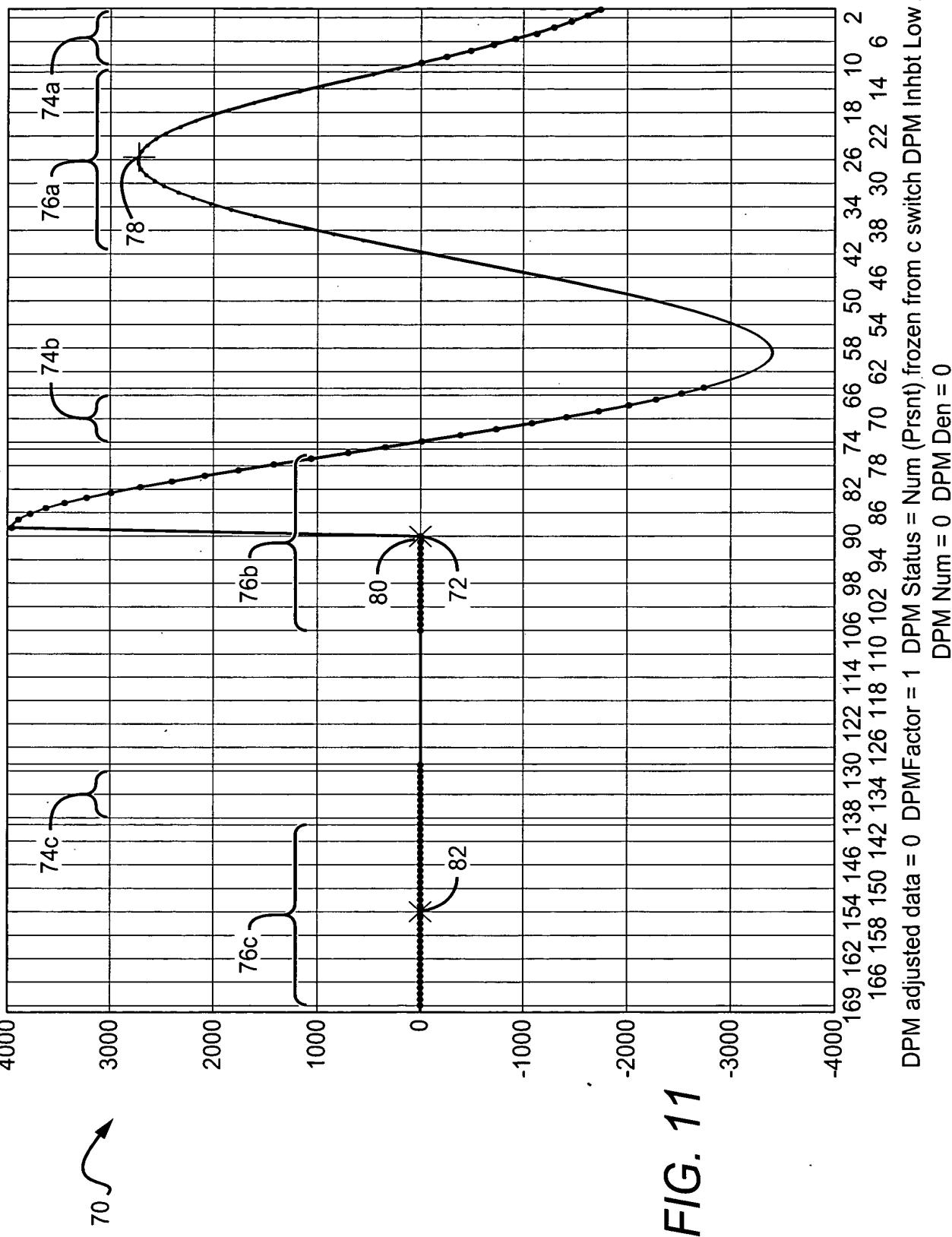


FIG. 11

Points Processed = 90 PtCntSwitch = 0 CasualSwitchLockedOut PastPoint = 0 PresentPoint = 3980 FuturePoint = 2706

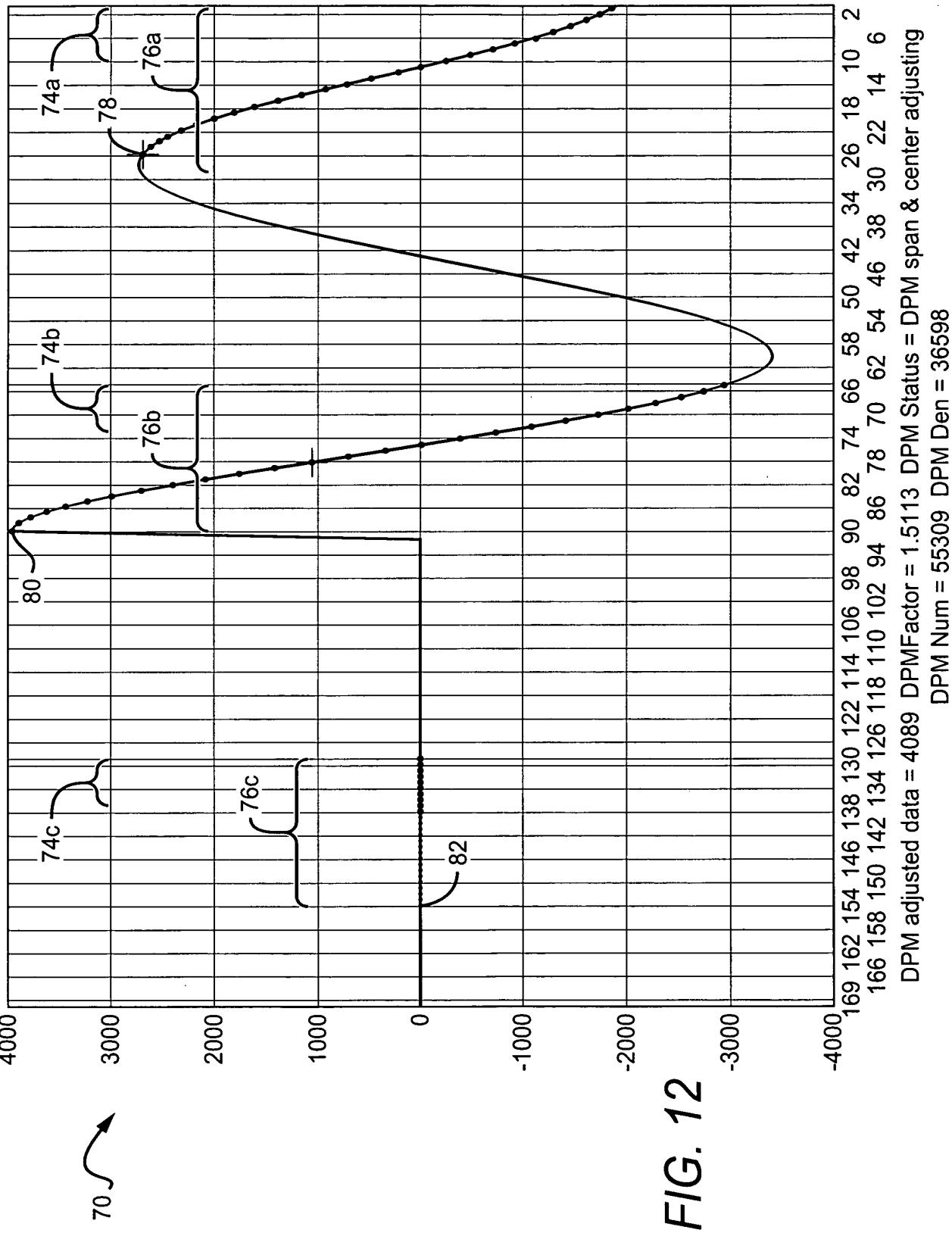


FIG. 12

Points Processed = 93 PtCntSwitch = -3 CasualSwitchLockedOut PastPoint = 0 PresentPoint = 3640 FuturePoint = 2457

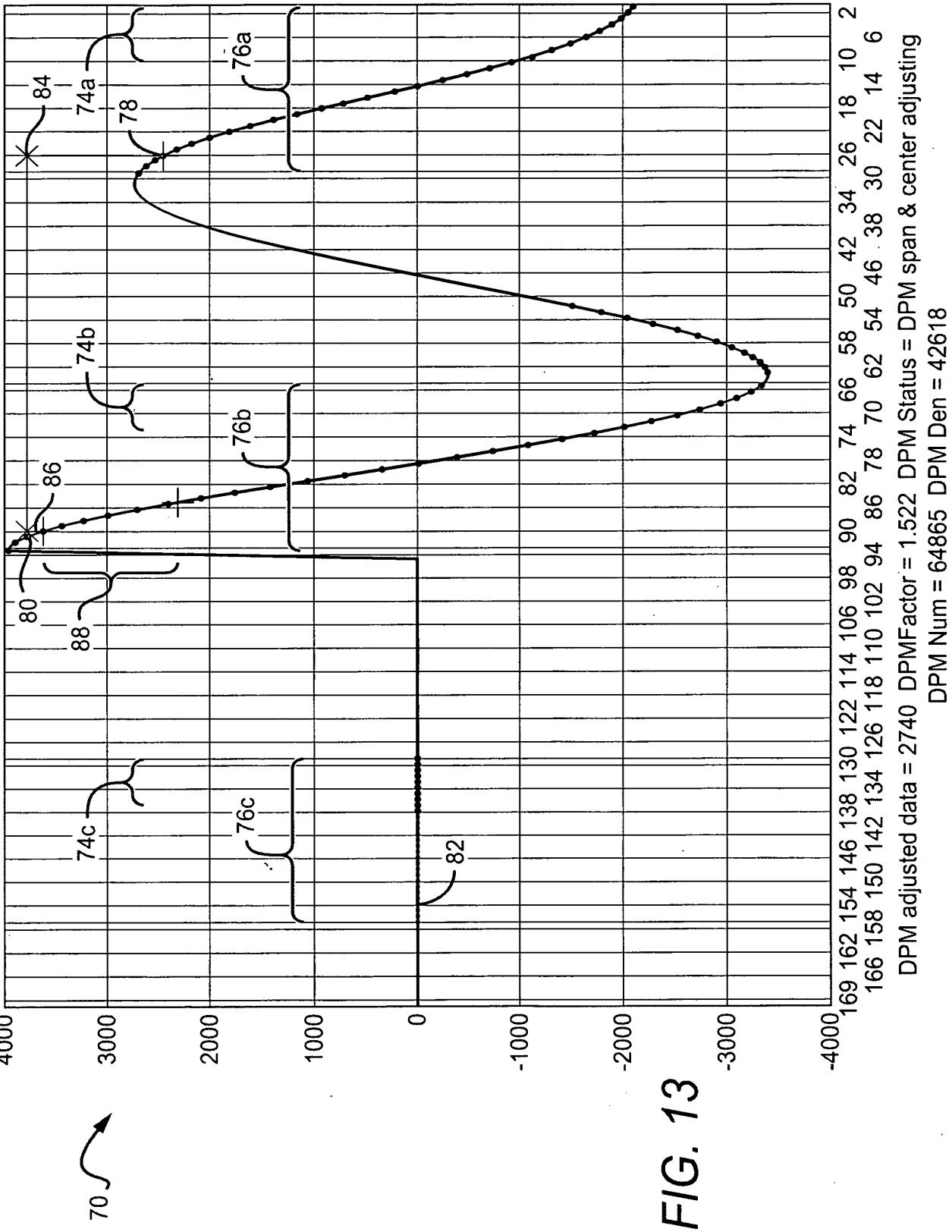
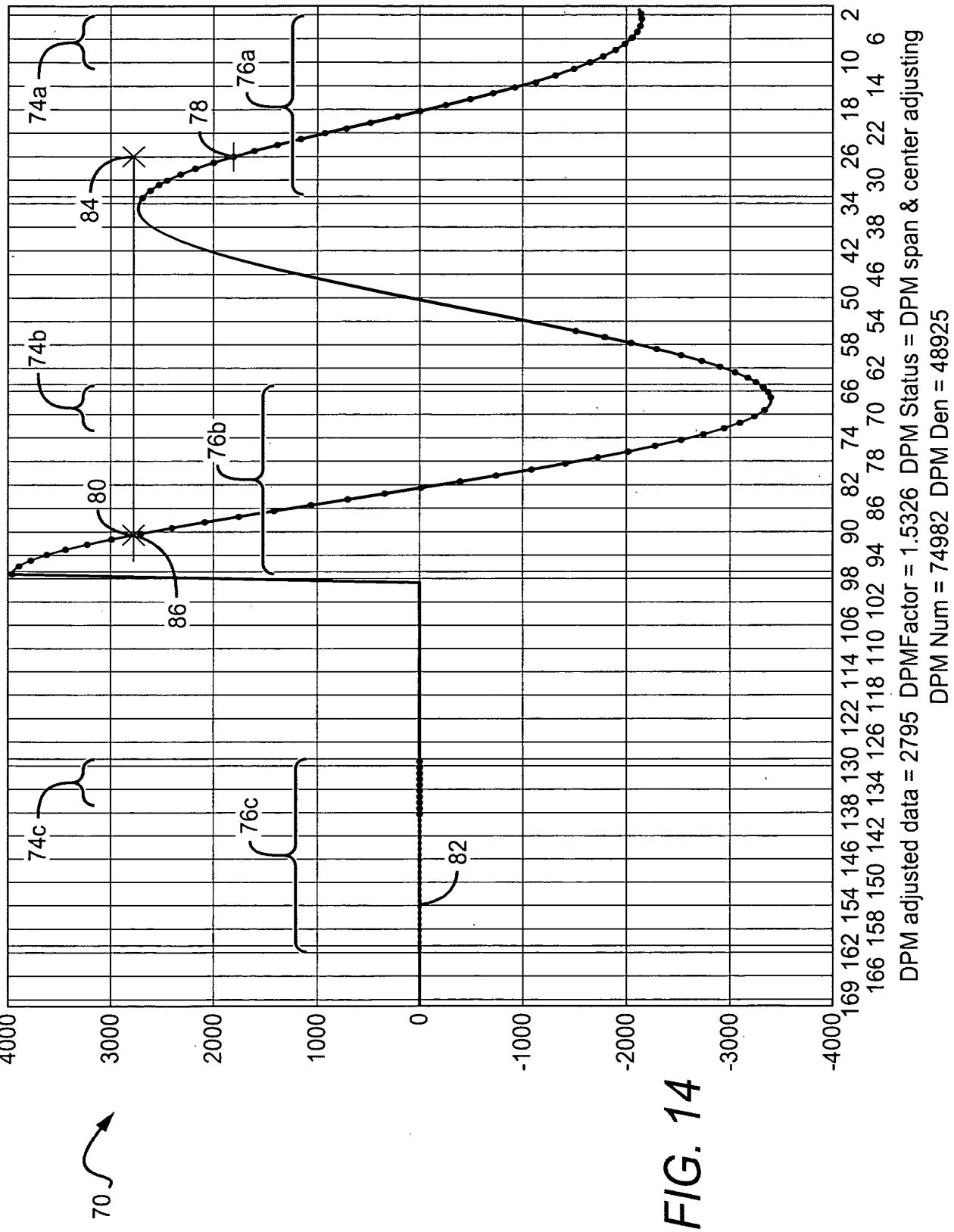


FIG. 13

Points Processed = 97 PtCntSwitch = -7 CasualSwitchLockedOut PastPoint = 0 PresentPoint = 2729 FuturePoint = 1824



Points Processed = 106 PtCntSwitch = 17 CasualSwitchEnabled PastPoint = 0 PresentPoint = -360 FuturePoint = -235

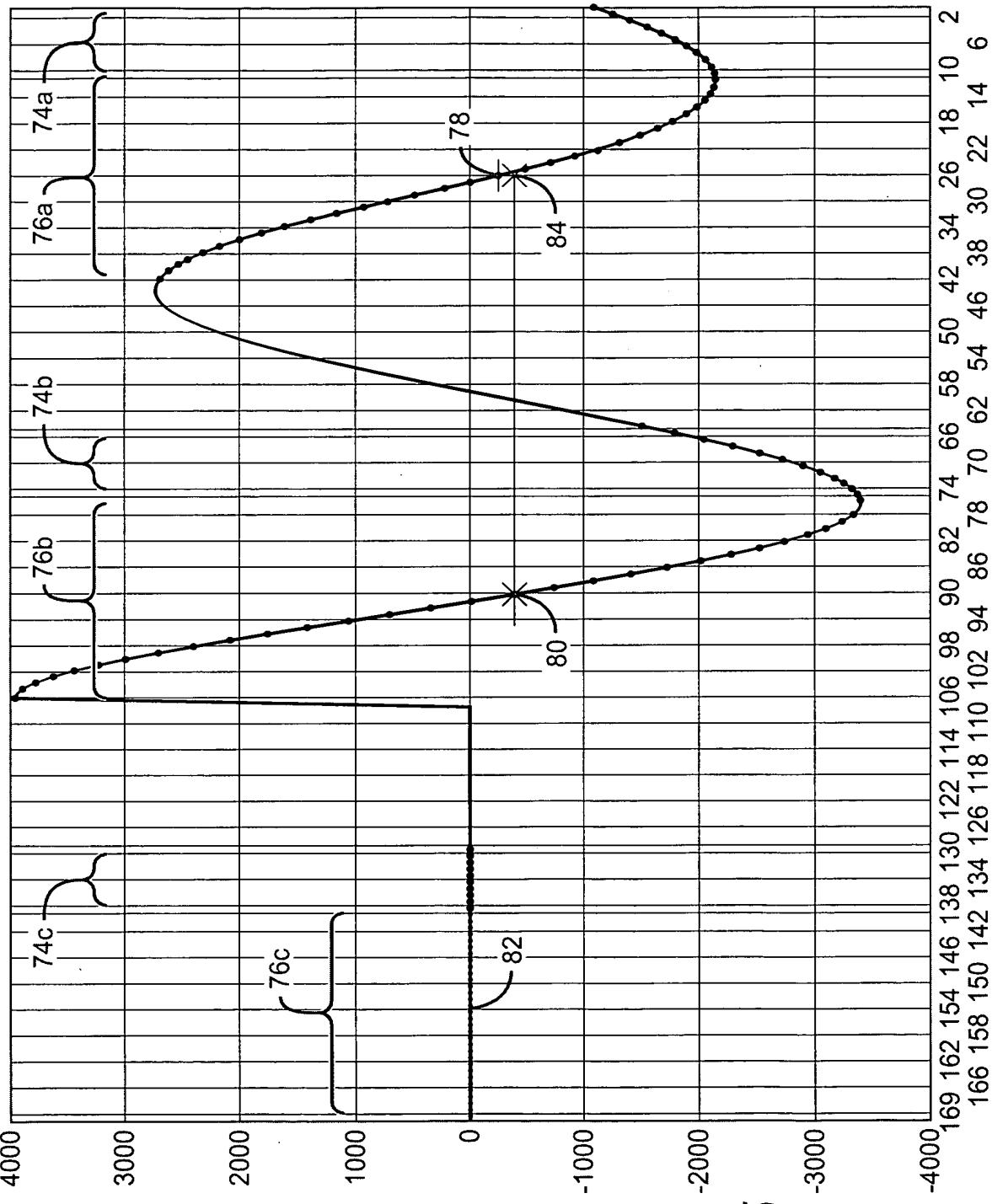
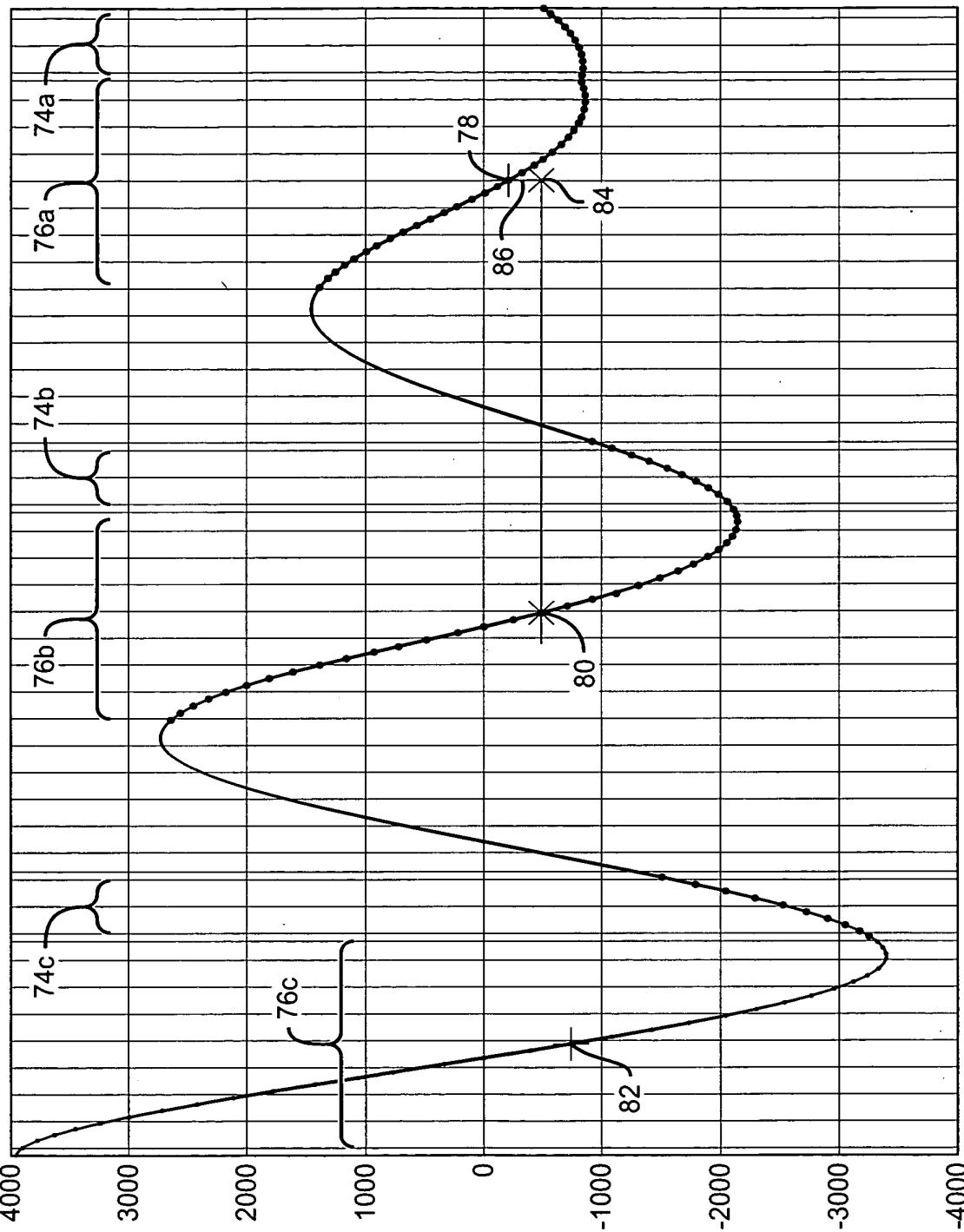


FIG. 15

Points Processed = 171 PtCntSwitch = 17 CasualSwitchEnabled PastPoint = -714 PresentPoint = -464 FuturePoint = -214



169 162 154 146 138 130 122 114 106 98 90 82 74 66 58 50 42 34 26 18 10 2  
 166 158 150 142 134 126 118 110 102 94 86 78 70 62 54 46 38 30 22 14 6  
 DPM adjusted data = -465 DPMFactor = 2.1699 DPM Status = Normal DPM Num = 48288 DPM Den = 22254

FIG. 16

Points Processed = 235 PtCntSwitch = 15 CasualSwitchLockedOut PastPoint = -464 PresentPoint = -214 FuturePoint = -351

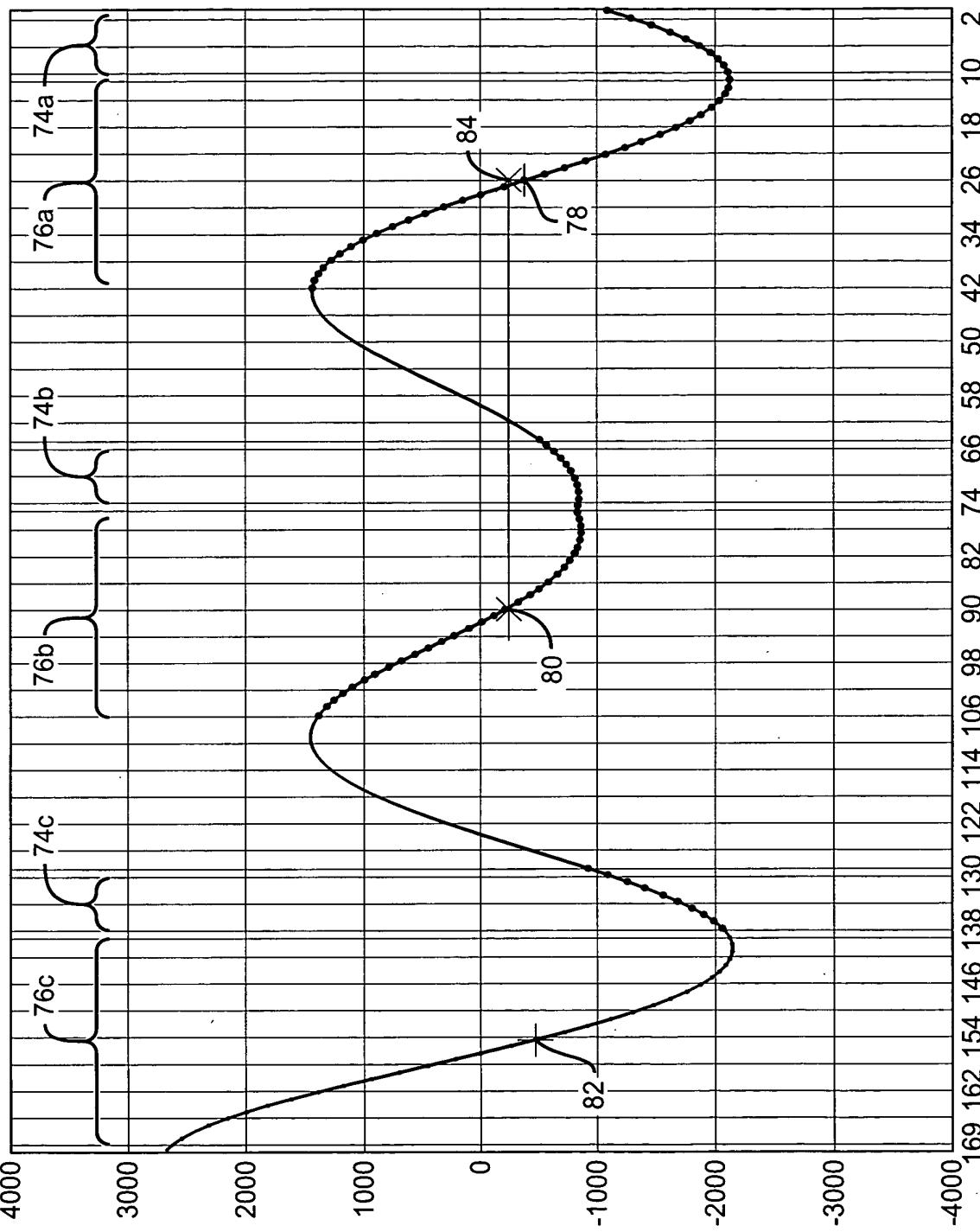
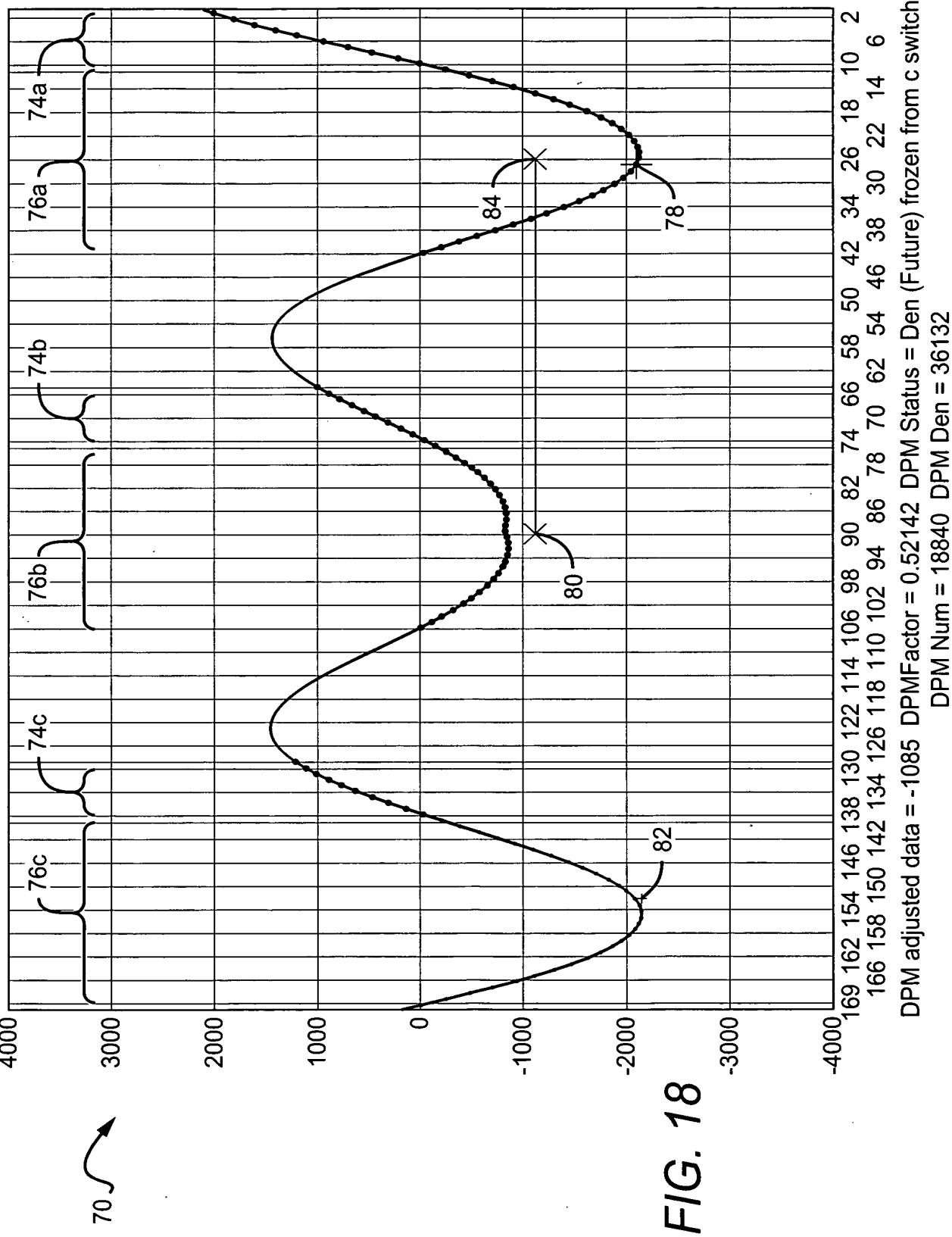


FIG. 17

169 162 154 146 138 130 122 114 106 98 90 82 74 66 58 50 42 34 26 18 10 2  
 166 158 150 142 134 126 118 110 102 94 86 78 70 62 54 46 38 30 22 14 6  
 DPM adjusted data = -217 DPM Status = Den (Future) frozen from c switch  
 DPM Num = 22254 DPM Den = 36132

Points Processed = 249 PtCntrSwitch = 1 CasualSwitchLockedOut PastPoint = -2100 PresentPoint = -820 FuturePoint = -2080



Points Processed = 250 PtCntSwitch = 0 CasualSwitchLockedOut PastPoint = -2069 PresentPoint = -816 FuturePoint = -2089

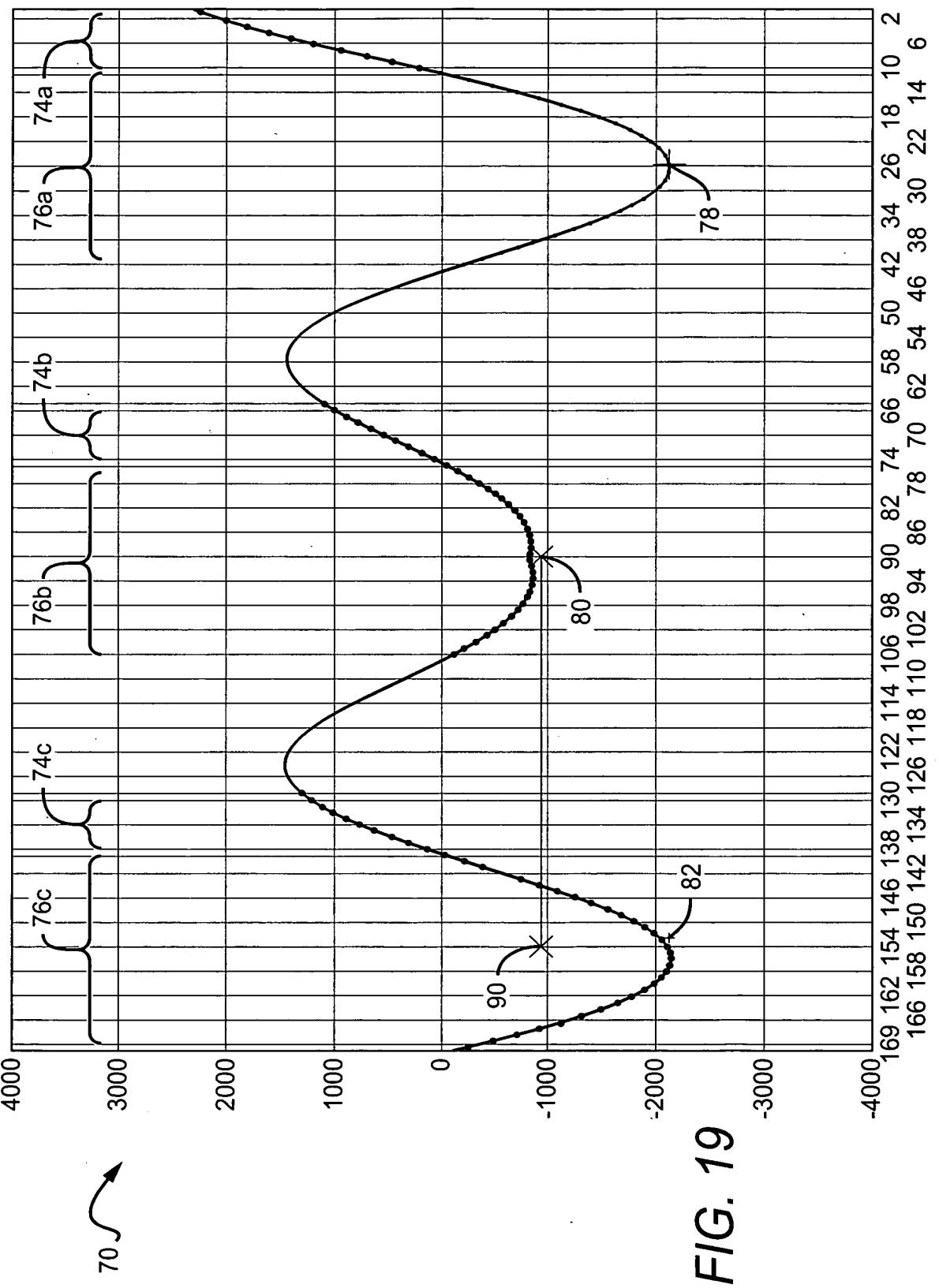


FIG. 19

Points Processed = 265 PtCntSwitch = -15 CasualSwitchLockedOut PastPoint = 0 PresentPoint = 0 FuturePoint = 0

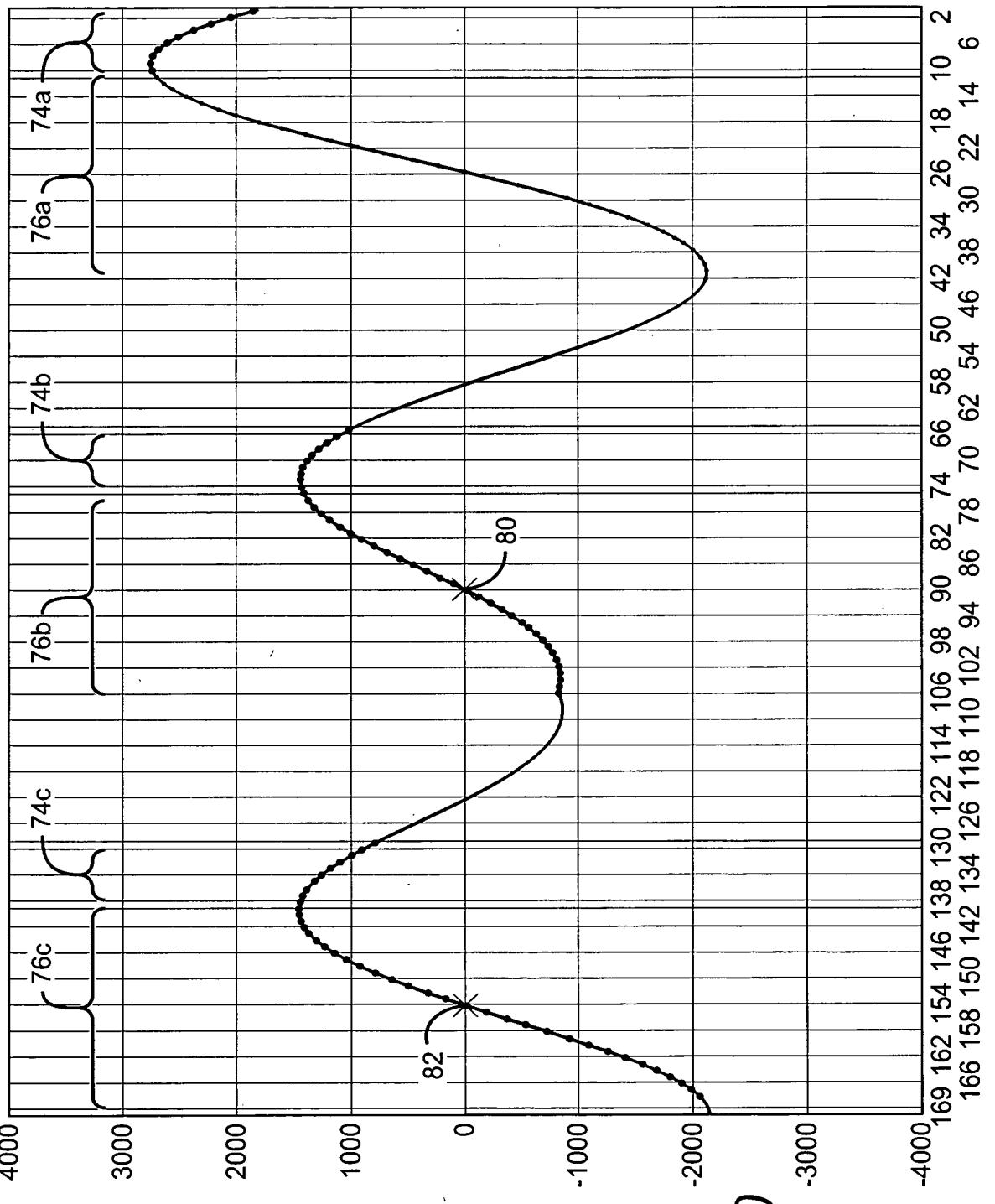


FIG. 20

DPM adjusted data = -1 DPMFactor = 0.61528 DPM Status = Normal DPM Num = 22481 DPM Den = 36538

Points Processed = 266 PtCntSwitch = 17 CasualSwitchEnabled PastPoint = 172 PresentPoint = 111 FuturePoint = 237

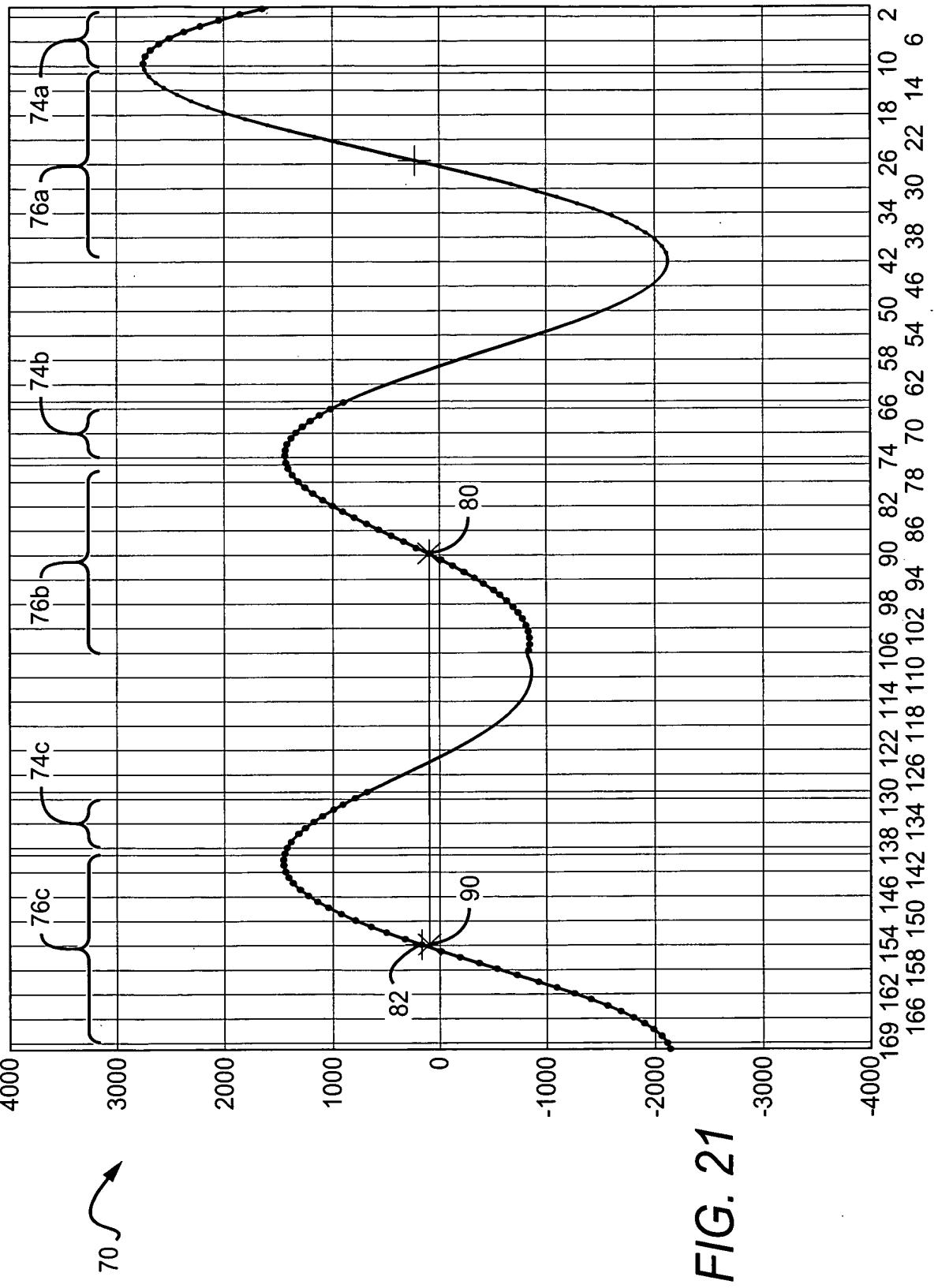


FIG. 21

Points Processed = 336 PtCntSwitch = 17 CasualSwitchEnabled PastPoint = 799 PresentPoint = 1611 FuturePoint = 2423

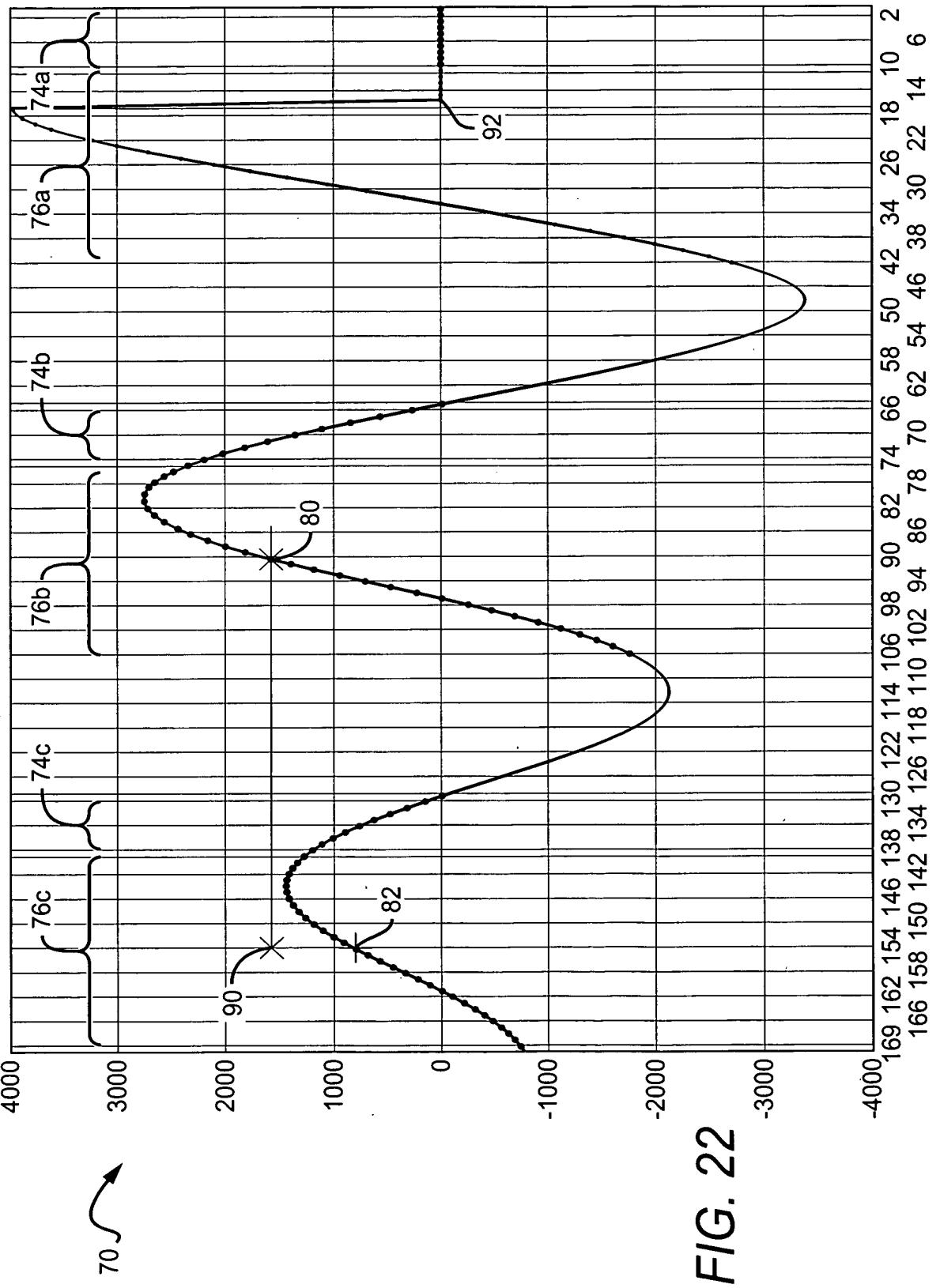
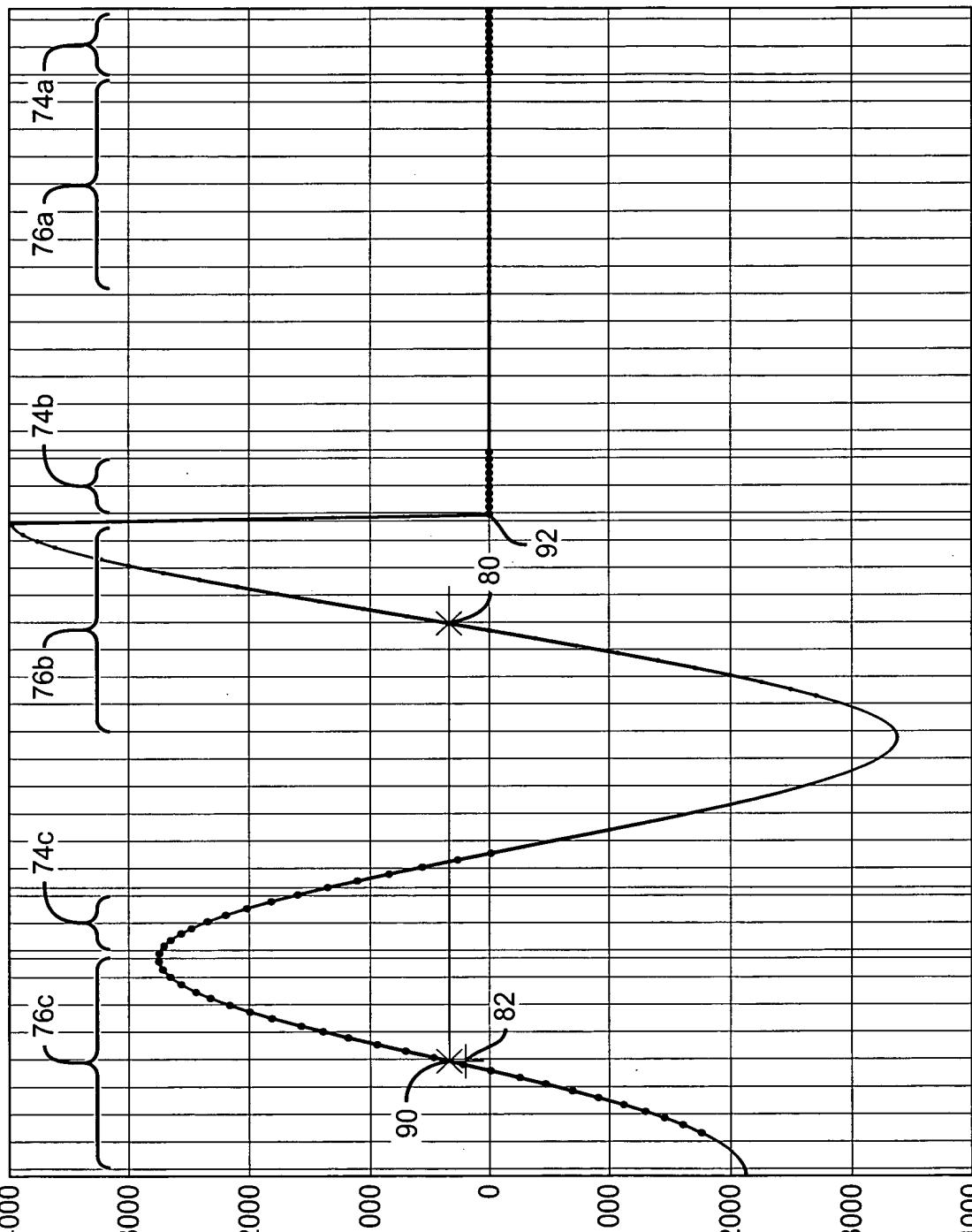


FIG. 22

Points Processed = 394 PtCntSwitch = 16 CasualSwitchLockedOut PastPoint = 237 PresentPoint = 362 FuturePoint = 0



169 162 154 146 138 130 122 114 106 98 90 82 74 66 58 50 42 34 26 18 10 2  
 166 158 150 142 134 126 118 110 102 94 86 78 70 62 54 46 38 30 22 14 6  
 DPM adjusted data = 363 DPMFactor = 1.5299 DPM Status = Normal DPM Num = 75211 DPM Den = 49160

FIG. 23

Points Processed = 408 PtCntSwitch = 2 CasualSwitchLockedOut PastPoint = 2686 PresentPoint = 3960 FuturePoint = 0

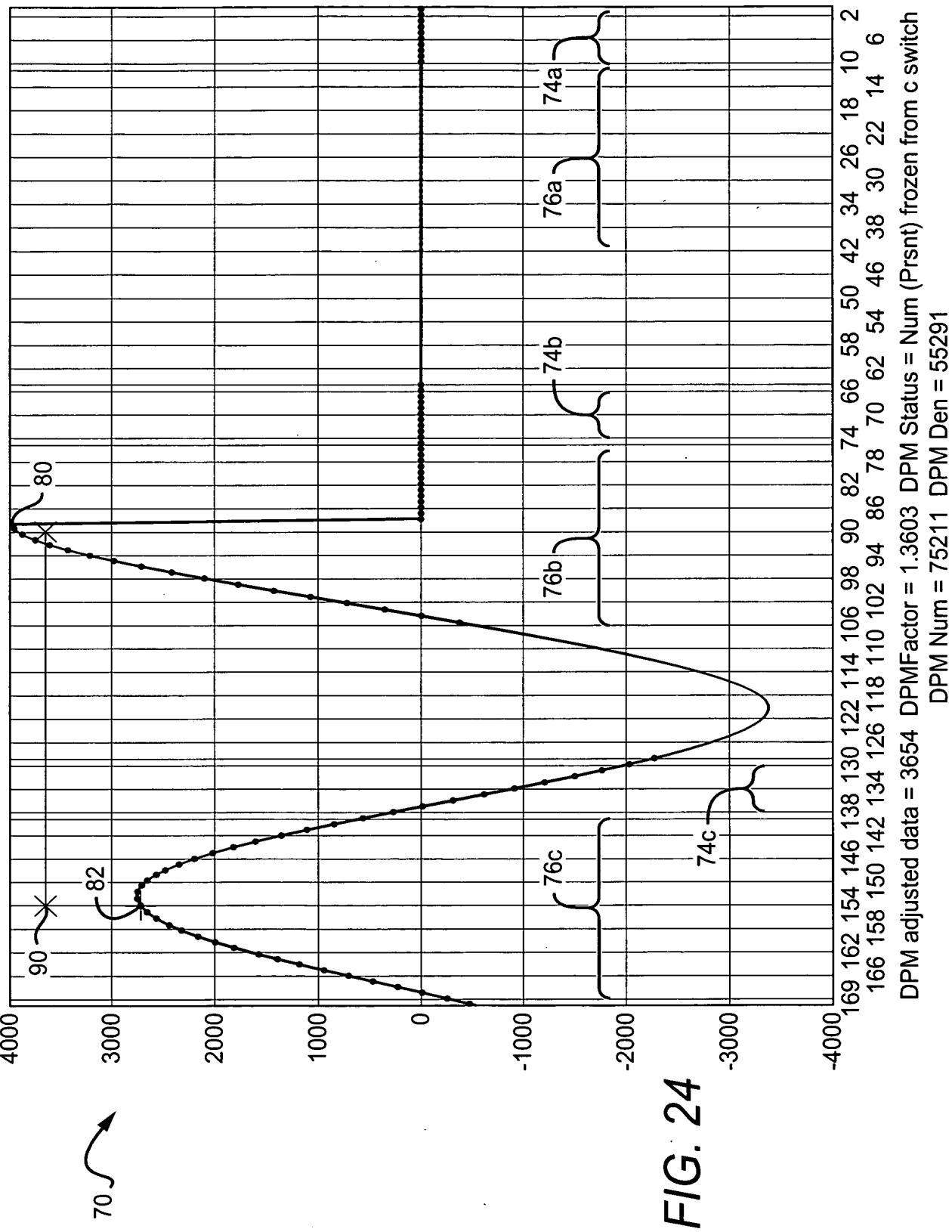
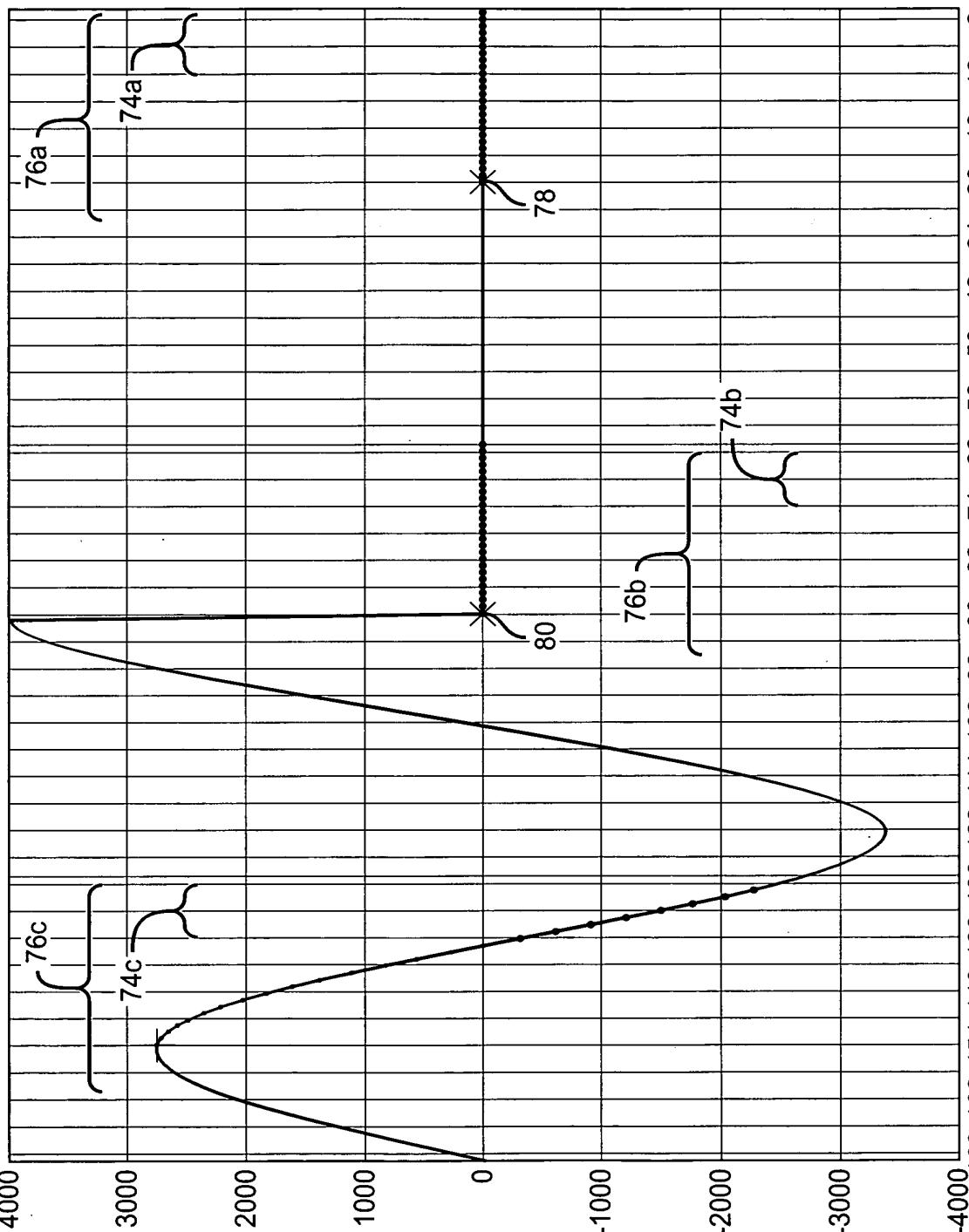


FIG. 24

Points Processed = 410 PtCntSwitch = 0 CasualSwitchOut PastPoint = 2726 PresentPoint = 0 FuturePoint = 0



169 162 154 146 138 130 122 114 106 98 90 82 74 66 58 50 42 34 26 18 10 2  
 166 158 150 142 134 126 118 110 102 94 86 78 70 62 54 46 38 30 22 14 6  
 DPM adjusted data = 0 DPM Factor = 1 DPM Status = DPM span & center adjustingDPM Inhbt Low Amp  
 DPM Num = 0 DPM Den = 0

FIG. 25

Points Processed = 418 PtCntSwitch = -8 CasualSwitchLockedOut PastPoint = 1839 PresentPoint = 0 FuturePoint = 0

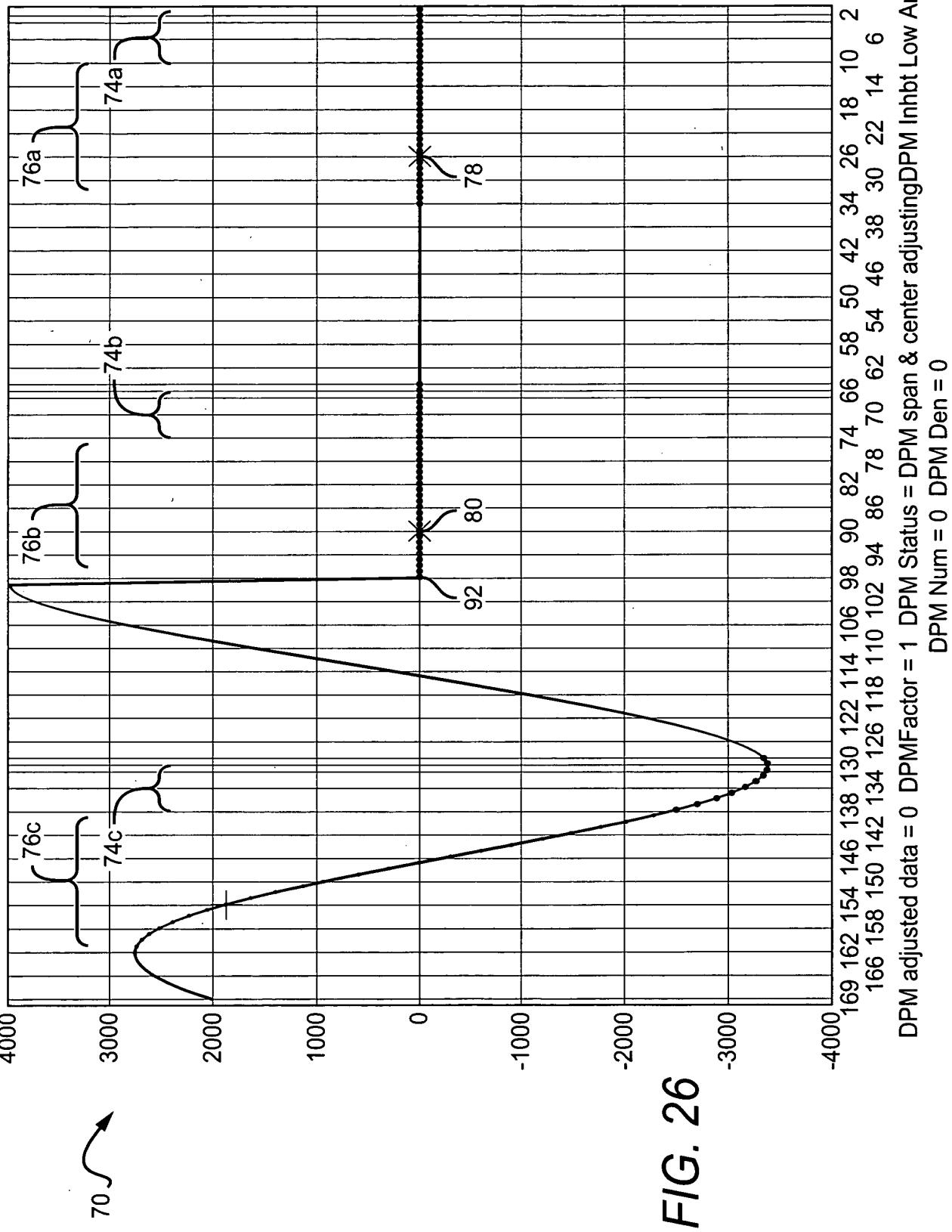


FIG. 26

Points Processed = 438 PtCntSwitch = 17 CasualSwitchEnabled PastPoint = -3157 PresentPoint = 0 FuturePoint = 0

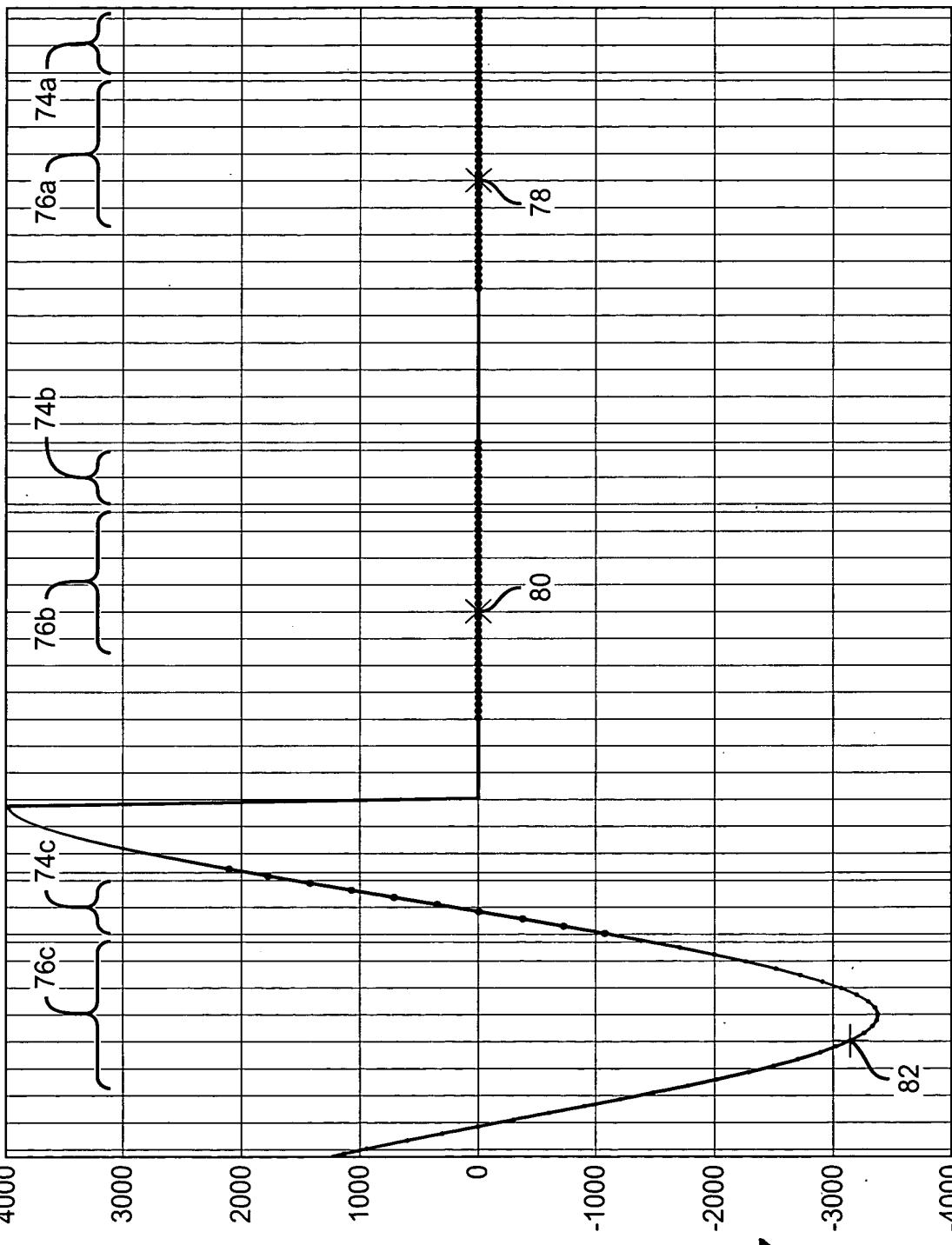


FIG. 27

169 162 154 146 138 130 122 114 106 98 90 82 74 66 58 50 42 34 26 18 10 2  
 166 158 150 142 134 126 118 110 102 94 86 78 70 62 54 46 38 30 22 14 6  
 DPM adjusted data = 0 DPMFactor = 1 DPM Status = DPM Inhbt Low Amp DPM Num = 0 DPM Den = 0

Output with casual/non-casual switching, but DPM only in the Past

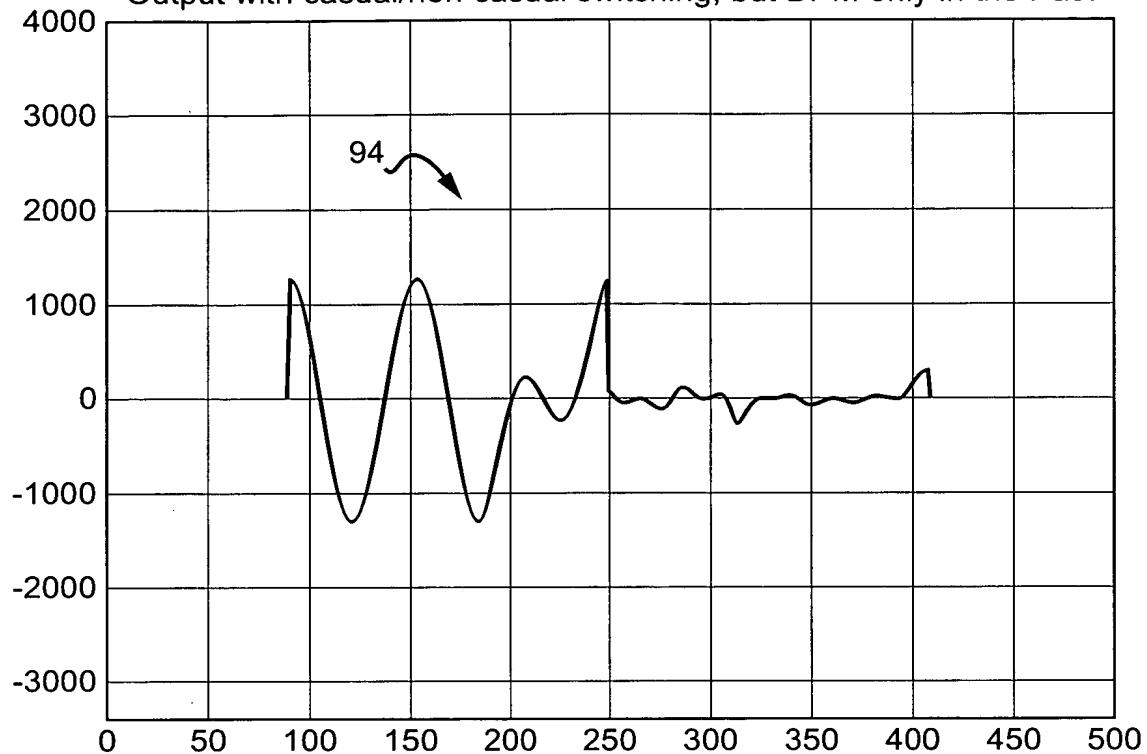
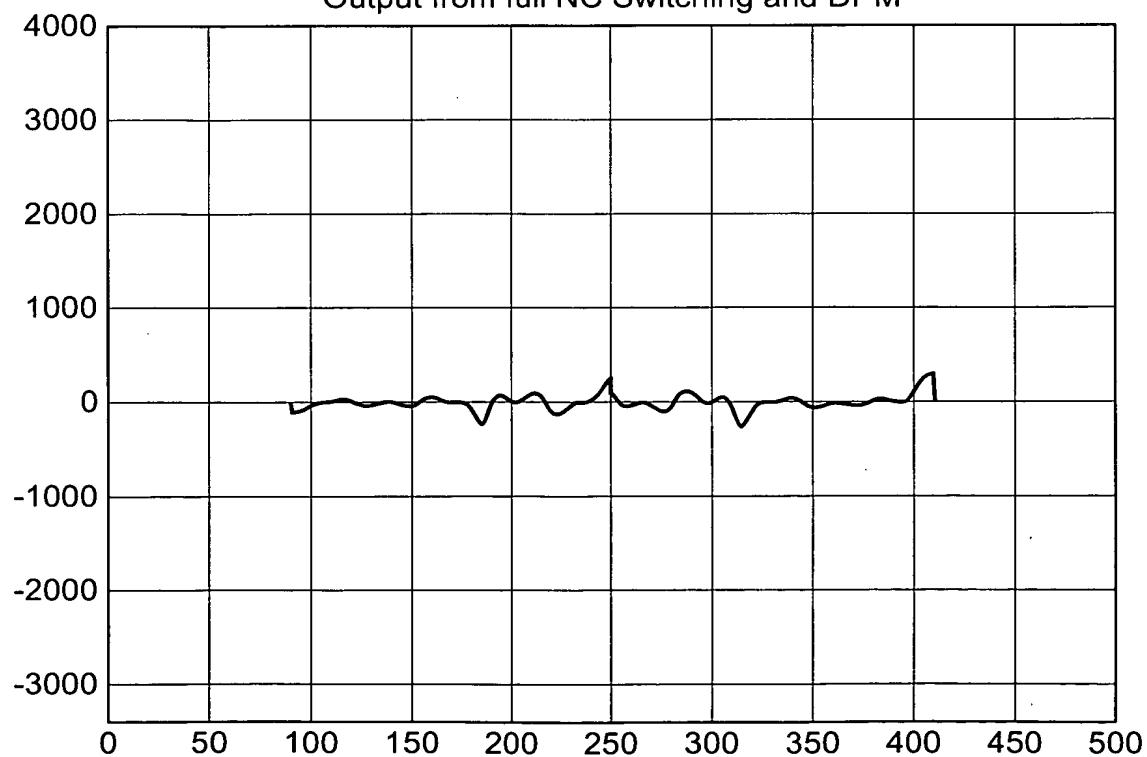


FIG. 28

FIG. 29

Output from full NC Switching and DPM



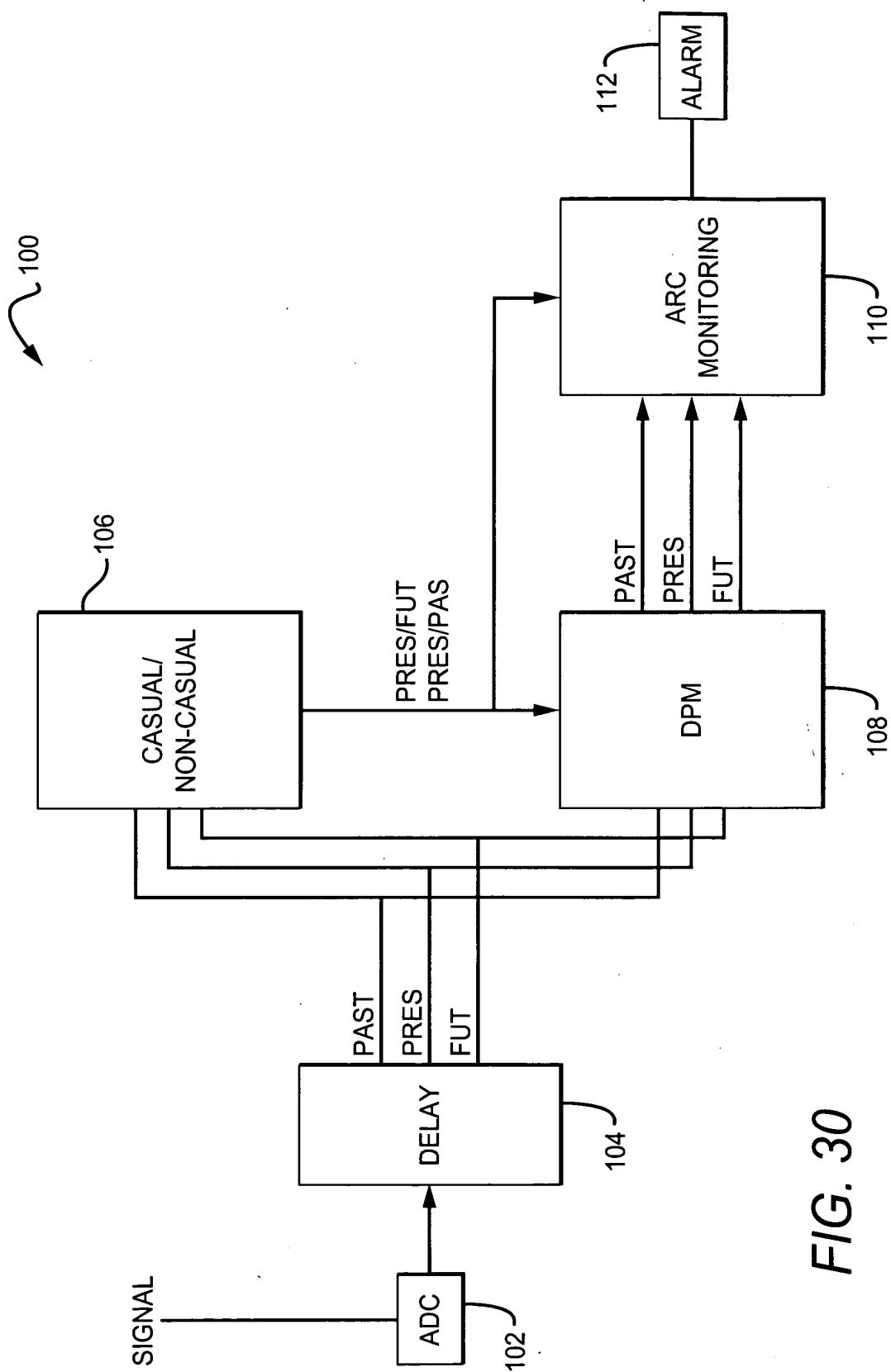


FIG. 30